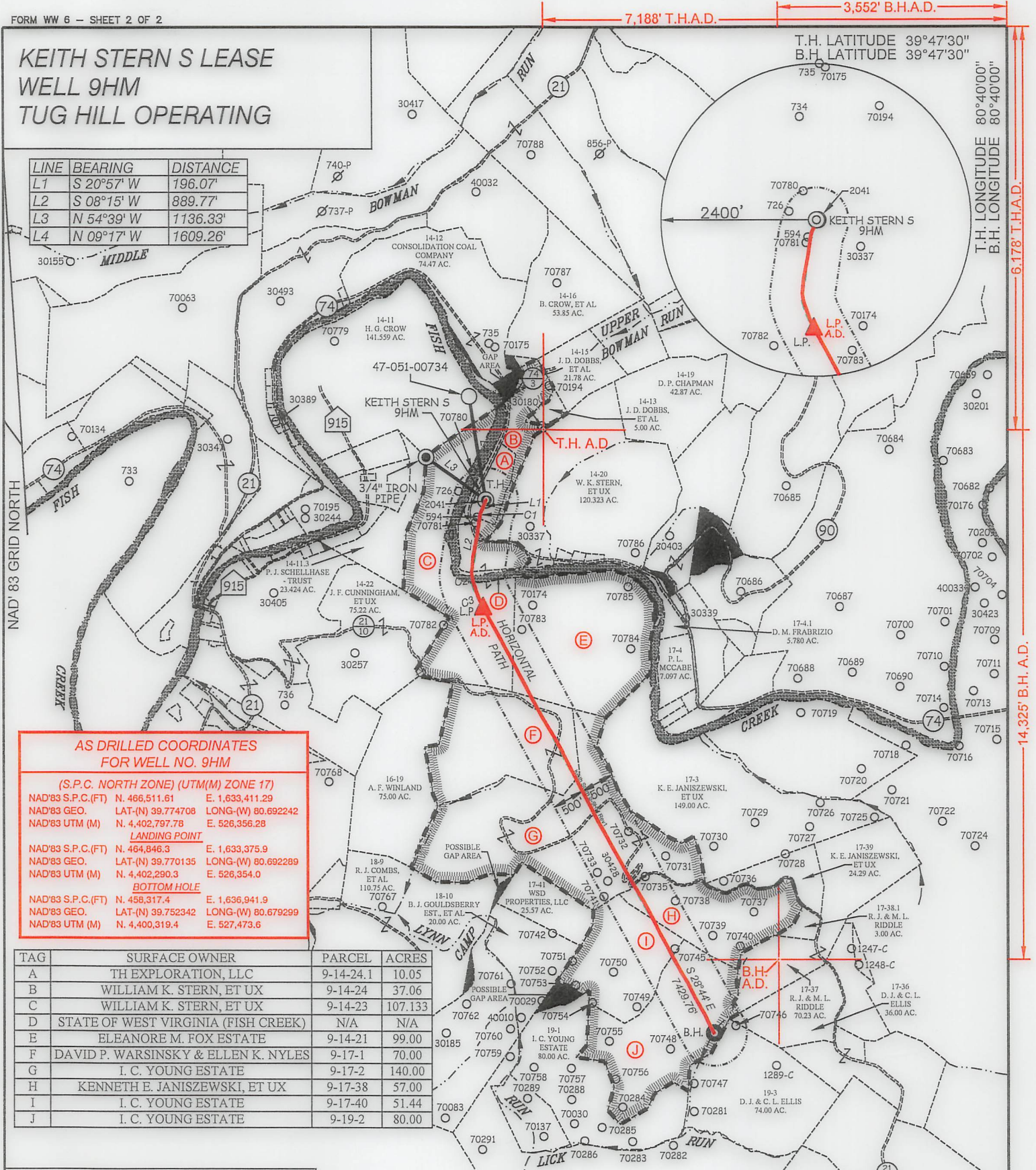


KEITH STERN S LEASE WELL 9HM TUG HILL OPERATING

LINE	BEARING	DISTANCE
L1	S 20°57' W	196.07'
L2	S 08°15' W	889.77'
L3	N 54°39' W	1136.33'
L4	N 09°17' W	1609.26'

NAD'83 GRID NORTH



7,188' T.H.A.D. 3,552' B.H.A.D.

T.H. LATITUDE 39°47'30"
B.H. LATITUDE 39°47'30"

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°40'00"

6,178' T.H.A.D.

14,325' B.H.A.D.

**AS DRILLED COORDINATES
FOR WELL NO. 9HM**

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17)

NAD'83 S.P.C.(FT)	N. 466,511.61	E. 1,633,411.29
NAD'83 GEO.	LAT-(N) 39.774708	LONG-(W) 80.692242
NAD'83 UTM (M)	N. 4,402,797.78	E. 526,356.28
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 464,846.3	E. 1,633,375.9
NAD'83 GEO.	LAT-(N) 39.770135	LONG-(W) 80.692289
NAD'83 UTM (M)	N. 4,402,290.3	E. 526,354.0
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 458,317.4	E. 1,636,941.9
NAD'83 GEO.	LAT-(N) 39.752342	LONG-(W) 80.679299
NAD'83 UTM (M)	N. 4,400,319.4	E. 527,473.6

TAG	SURFACE OWNER	PARCEL	ACRES
A	TH EXPLORATION, LLC	9-14-24.1	10.05
B	WILLIAM K. STERN, ET UX	9-14-24	37.06
C	WILLIAM K. STERN, ET UX	9-14-23	107.133
D	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
E	ELEANORE M. FOX ESTATE	9-14-21	99.00
F	DAVID P. WARSINSKY & ELLEN K. NYLES	9-17-1	70.00
G	I. C. YOUNG ESTATE	9-17-2	140.00
H	KENNETH E. JANISZEWSKI, ET UX	9-17-38	57.00
I	I. C. YOUNG ESTATE	9-17-40	51.44
J	I. C. YOUNG ESTATE	9-19-2	80.00



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296

slsww.com

LEGEND

AS DRILLED
 PROPOSED

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	87.98'	471.17'	S 13°16' W	87.86'
C2	137.58'	398.93'	S 06°49' E	136.90'
C3	413.67'	1838.31'	S 22°58' E	412.80'

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17)

NAD'83 S.P.C.(FT)	N. 466,511.61	E. 1,633,411.29
NAD'83 GEO.	LAT-(N) 39.774708	LONG-(W) 80.692242
NAD'83 UTM (M)	N. 4,402,797.78	E. 526,356.28
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 464,846.4	E. 1,633,370.7
NAD'83 GEO.	LAT-(N) 39.770135	LONG-(W) 80.692308
NAD'83 UTM (M)	N. 4,402,290.3	E. 526,352.4
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 458,331.3	E. 1,636,942.1
NAD'83 GEO.	LAT-(N) 39.752380	LONG-(W) 80.679299
NAD'83 UTM (M)	N. 4,400,323.6	E. 527,473.6



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

P.S. 677

Gregory A. Smith
LEGEND

LEASE LINE	
SURFACE LINE	
WELL LATERAL	
OFFSET LINE	
TIE LINE	
CREEK	
ROAD	
COUNTY ROUTE	
PROPOSED WELL	
EXISTING WELL	
PERMITTED WELL	
TAX MAP-PARCEL	00-00
LEASE # (SEE WW-6A1)	
SURFACE OWNER (SEE TABLE)	(A)

COUNTY NAME

PERMIT

SCALE 1" = 2000' FILE NO. 8811P9HMV2-AD.dwg

DATE FEBRUARY 15, 20 23

REVISED _____, 20 _____

OPERATORS WELL NO. KEITH STERN S-9HM

API WELL NO. 47 — 051 — 02102
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DIVISION OF
ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS



WELL OPERATOR TUG HILL OPERATING, LLC
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500
FORT WORTH, TX 76107

DESIGNATED AGENT DARREN BROWN - CT CORPORATION
ADDRESS 5098 WASHINGTON ST. W, STE 407
CHARLESTON, WV 25313-1561

12/08/2023

7,188' T.H.A.D. 3,552' B.H.A.D.

**KEITH STERN S LEASE
WELL 9HM
TUG HILL OPERATING**

T.H. LATITUDE 39°47'30"
B.H. LATITUDE 39°47'30"

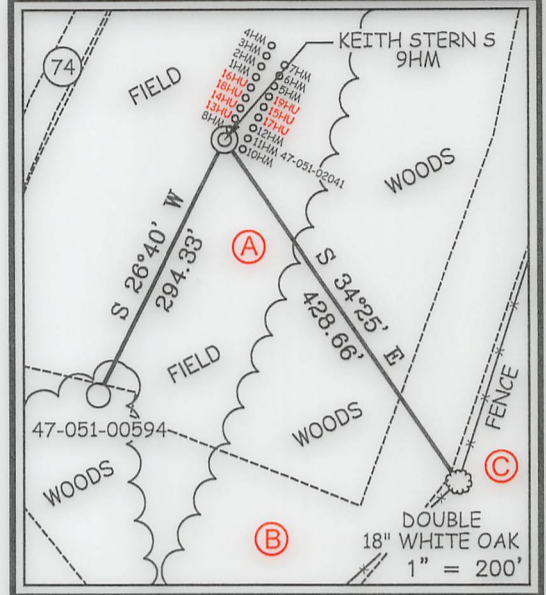
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17)		
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T.H. LONGITUDE 80°40'00"
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6,178' T.H.A.D.

14,325' B.H.A.D.

REFERENCES



NOTES ON SURVEY

1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS OR DWELLINGS > 2500 SQ. FT. WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
2. WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.
3. PLAT UPDATED TO SHOW AS-DRILLED PATH.
4. AS DRILLED DATA PROVIDED BY TUG HILL OPERATING.



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1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slsvv.com

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE FEBRUARY 15, 20 23
REVISED _____, 20 ____
OPERATORS WELL NO. KEITH STERN S-9HM
API WELL NO. 47 - 051 - 02102
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500
FILE NO. 8811P9HMV2-AD.dwg
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK)
SCALE 1" = 2000'

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

WELL TYPE: OIL _____ GAS INJECTION _____ WASTE DISPOSAL _____ IF "GAS" PRODUCTION STORAGE _____ DEEP _____ SHALLOW

LOCATION: GROUND = 737.7' ELEVATION PROPOSED = 744.65' WATERSHED FISH CREEK (HUC 10)
DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER TH EXPLORATION, LLC ACREAGE 10.05±
ROYALTY OWNER ISAAC CROW, ET AL - SEE WW-6A1 ACREAGE 12.08/2023
LEASE NO. SEE WW-6A1

PROPOSED WORK:
DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____ OTHER _____
PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD: 6,402' / TMD: 14,241'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DARREN BROWN - CT CORPORATION
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5098 WASHINGTON ST. W, STE 407
FORT WORTH, TX 76107 CHARLESTON, WV 25313-1561

COUNTY NAME PERMIT